

SERVICE MANUAL

CASSETTE TAPE DECK



RD5035

(EUROPE)



SPECIFICATIONS

Tape	Metal, CrO ₂ , Fe-Cr, Low noise and Standard tape
Recording system	AC bias, 4 tracks stereo
Erasing system	AC erasing, 2 tracks
Tape speed	1-7/8 ips. (4.75 cm/sec.)
Recording time	60 min. (C-60 cassette tape)
Rewind and fast forward time	100 sec. (C-60 cassette tape)
Wow and flutter	0.05% WRMS
Frequency response	30 – 19,000Hz (Metal tape) 30 – 16,000Hz (CrO ₂ or Fe-Cr tape) 30 – 13,000Hz (Normal tape)
Signal to noise ratio	63 dB (Dolby NR switch on) 55 dB (Dolby NR switch off)
Input	MIC: 400 – 10k ohms (0.3 mV) DIN (REC/PLAY): 5k ohms (1 mV) LINE IN: 50k ohms (50 mV)
Output	DIN (REC/PLAY): 3k ohms (0.53 V) LINE OUT: 3k ohms (0.53 V) PHONES: 8 – 10k ohms (25 mV)
Power source	AC: 115/220V, 50Hz
Power consumption	10 W
Dimensions	16-5/8"(W) x 10-5/8"(D) x 5-1/4"(H) (420 x 270 x 132 mm)
Weight	Approx. 10 lbs. 9 ozs. (4.8 kg)

* Specifications subject to change without notice.

WM-4531

HOW TO REMOVE THE CABINET AND CHASSIS

1) How to remove the cabinet

- Unscrew four bind head tapping screws (4 x 10mm) used to fasten the cabinet.
- The cabinet can be removed if its laterals are lifted up in parallel.

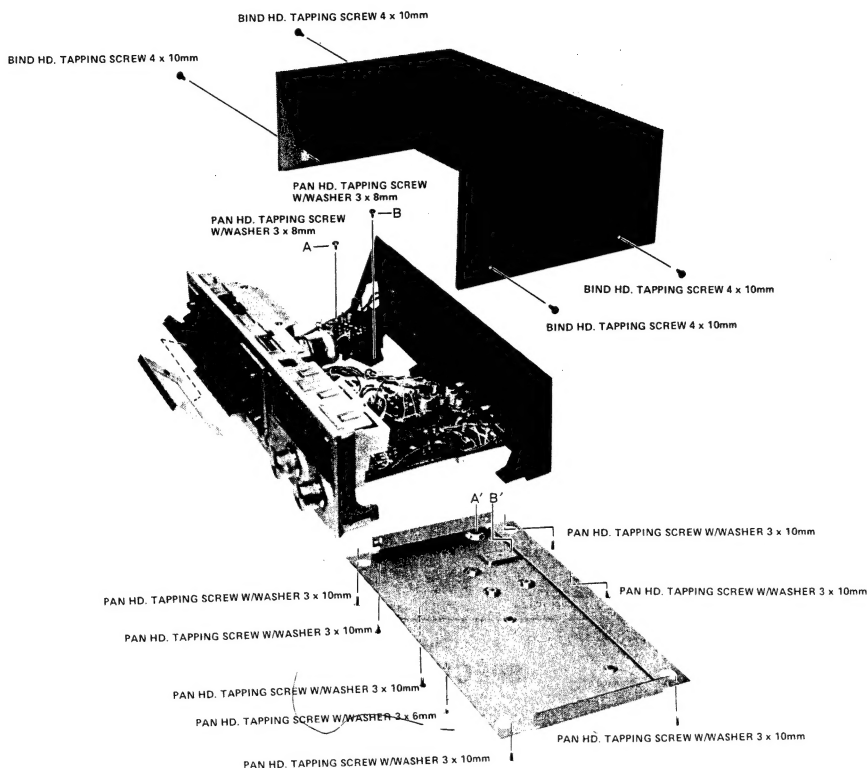
2) How to detach the bottom lid

- Unscrew three pan head tapping screws (3 x 10mm) used to fasten the bottom lid with the front panel, and furthermore unscrew two pan head tapping screws (3 x 10mm) used to fasten the bottom lid with the mechanism.
- Unscrew two pan head tapping screws (3 x 8mm) used to fix the power transformer.

- Detach three fixers used to shape lead wires from the bottom lid.
- As two brackets (8) used to fix the amplifier substrate (printed circuit board) with the bottom lid, it can be removed.

3) How to remove the mechanism

- Unscrew two pan head tapping screws (3 x 10mm) used to fasten the bottom lid with the mechanism and two pan head tapping screws (3 x 10mm) used to fasten the front panel with the mechanism.
- As the spring coil (24) which connects the mechanism with the R/P switch is detached, the mechanism can be removed.



Items of adjustment	Tape to be used	Points of measurement	Input terminal	Frequency	Input level	Equalizer switch	Bias switch	Dolby switch	Places of adjustment	Value
Head azimuth	VTT-658 10 kHz -15 dB	LINE OUT				NORMAL	NORMAL	OFF	Re-adjustment of head	Max.
Playback output	MTT-150 (Dolby tape)	LINE OUT				NORMAL	NORMAL	OFF	SVR701 SVR801	0.75V
VU meter	Blank Tape	LINE OUT VU meter	LINE IN	1 kHz	-23 dB	NORMAL	NORMAL	OFF	SVR704 SVR804	0.53V 0 dB (METER)
REC/PLAY frequency response	AC 211	LINE OUT	LINE IN	1 kHz 10KHz	-43 dB	NORMAL	NORMAL	OFF	SVR703 SVR803	$\pm 0 \sim +0.5$ dB
Record gain	CN-32508	LINE OUT	LINE IN	1 kHz	-23 dB	METAL	METAL	OFF	SVR702 SVR802	0.53V

AMPLIFIER ADJUSTMENTS

Adjust the OUTPUT LEVEL control knob to the maximum for all adjustment.

1. HEAD AZIMUTH

EQ. Bias select switches; NORMAL

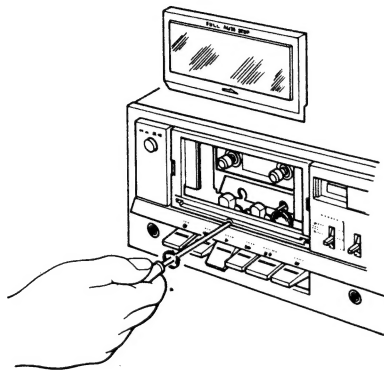
Dolby switch; OFF

Tape to be used; VTT-658 (10 kHz, -15 dB)

Load a test tape and press the PLAY button.

Adjust the head azimuth screw so the LINE OUT level becomes maximum.

Repeat the adjustment on both channels and both sides of the tape.



2. PLAYBACK OUTPUT

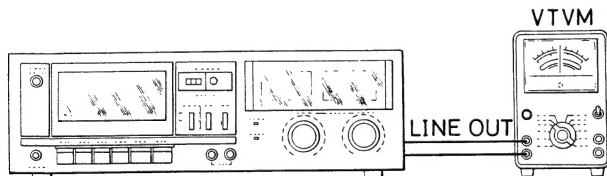
EQ. Bias select switches; METAL

Dolby switch; OFF

Tape to be used; MTT-150 (Dolby tape)

Load a test tape and press the PLAY button.

Adjust SVR701 and SVR801 so the LINE OUT level becomes 0.75V

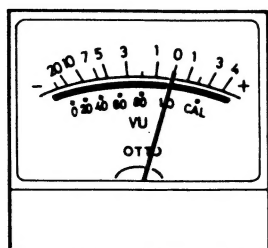


3. LEVEL METER

EQ. Bias select switches; NORMAL

Dolby switch; OFF

Set the unit to the REC mode, and the input signal at -23 dB (1 kHz) to record input terminals. Adjust INPUT LEVEL control knobs so the monitor output becomes 0.53V, then adjust SVR704 and SVR804 to obtain 0 VU indication of the LEVEL meter.



4. REC/PLAY FREQUENCY CHARACTERISTICS

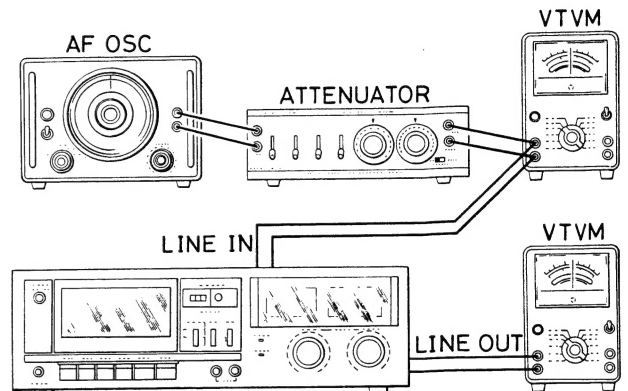
EQ. Bias select switches; NORMAL

Dolby switch; OFF

Load a test tape: CA211

Set INPUT LEVEL control knobs to the same position as item 3 and the input signal level at -43 dB (1 kHz and 10 kHz). Record 1 kHz and 14 kHz signal, then playback these signals.

Adjust SVR703 and SVR803 so the VTVM indication for the 14 kHz playback signal is within a range from 0 dB to +0.5 dB (with the 1 kHz response as 0 dB reference).



5. RECORD GAIN

EQ. Bias select switches; NORMAL

Dolby switch; OFF

Load a test tape; CN32508

Set INPUT LEVEL control knobs to the same position as item 3 and the input signal level at -23 dB (1 kHz). Record 1 kHz signal and play it back.

Adjust SVR702 and SVR802 so the playback output becomes 0.53V.

MECHANISM ADJUSTMENTS

1. TAKE-UP TORQUE

Set the unit to PLAY, F.FWD or REW mode.

Measure each torque with a torque gauge.

Each torque should be as follows;

PLAY 35 – 60 g/cm

FAST FORWARD 55 – 95 g/cm

REWIND 60 – 100 g/cm

If each torque fails to reach the standard value, clean the drive belt, flywheel, motor pulley, take-up reel idler and rewind roller with a cotton swab soaked in alcohol.

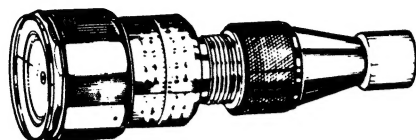


Figure 1.

2. BACK TENSION

To measure back tension with tension gauge, make a hole in the side of the cassette as shown in figure two.

Be sure the tape does not rub against the edge of the cassette, or correct measurement will be impossible.

PLAY Less than 5 g/cm

FAST FORWARD Less than 5 g/cm

REWIND Less than 5 g/cm

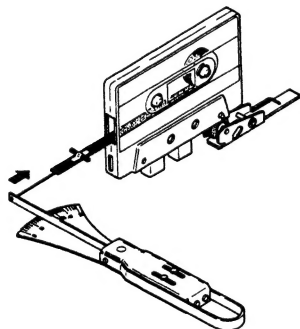


Figure 2.

3. TAPE TENSION

Cut off a length of tape. Tie one end to a thread connected to the tension gauge, and leave the other end hanging loose as shown in figure three.

Operate the unit in PLAY mode and hold the tension gauge steady.

When the tape stops, read the tension gauge. If this reading is over 120 gram, no adjustment is needed.

If it is under 120 gram, adjust the pinch-roller pressure.

This is done by bending the spring wire 38 (141-2-852T-47400) shown in the mechanism exploded view. Clean the pinch roller with alcohol so the tape will not slip.

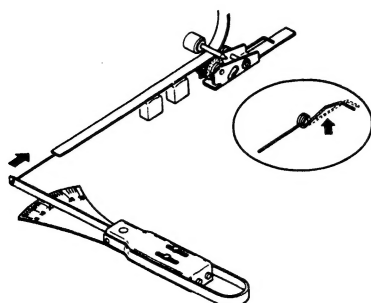


Figure 3.

4. TAPE SPEED

Remove the cabinet

Connect a tape speed counter to LINE OUT terminal (left or right channel) of the unit.

Load a test tape (MTT-111) and operate the unit in PLAY mode.

Turn semifixed variable resistor of the motor clockwise or counterclockwise to obtain 3 kHz indication of the tape speed counter.

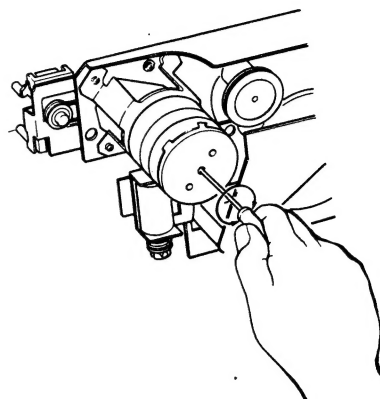


Figure 4.

PARTS LIST

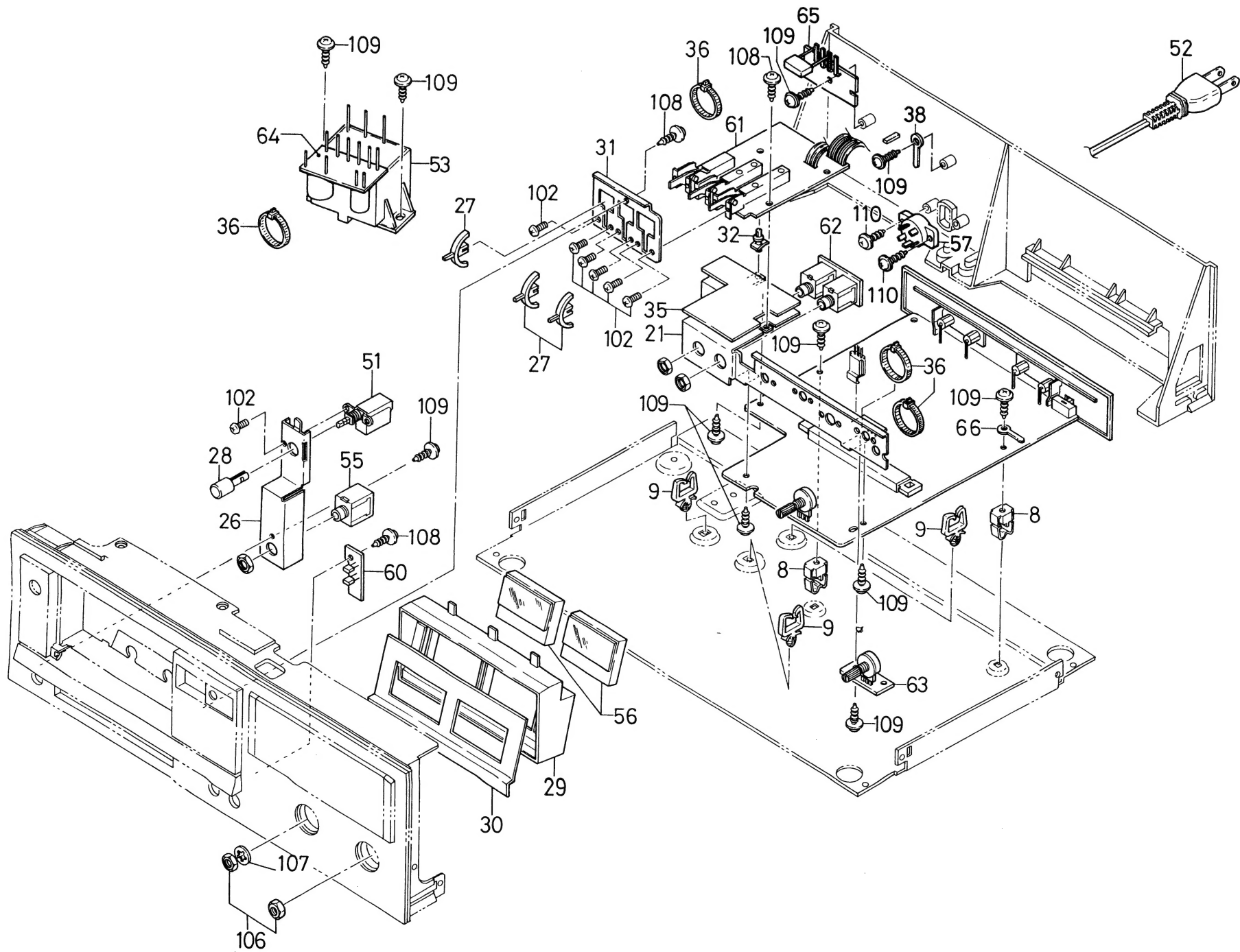
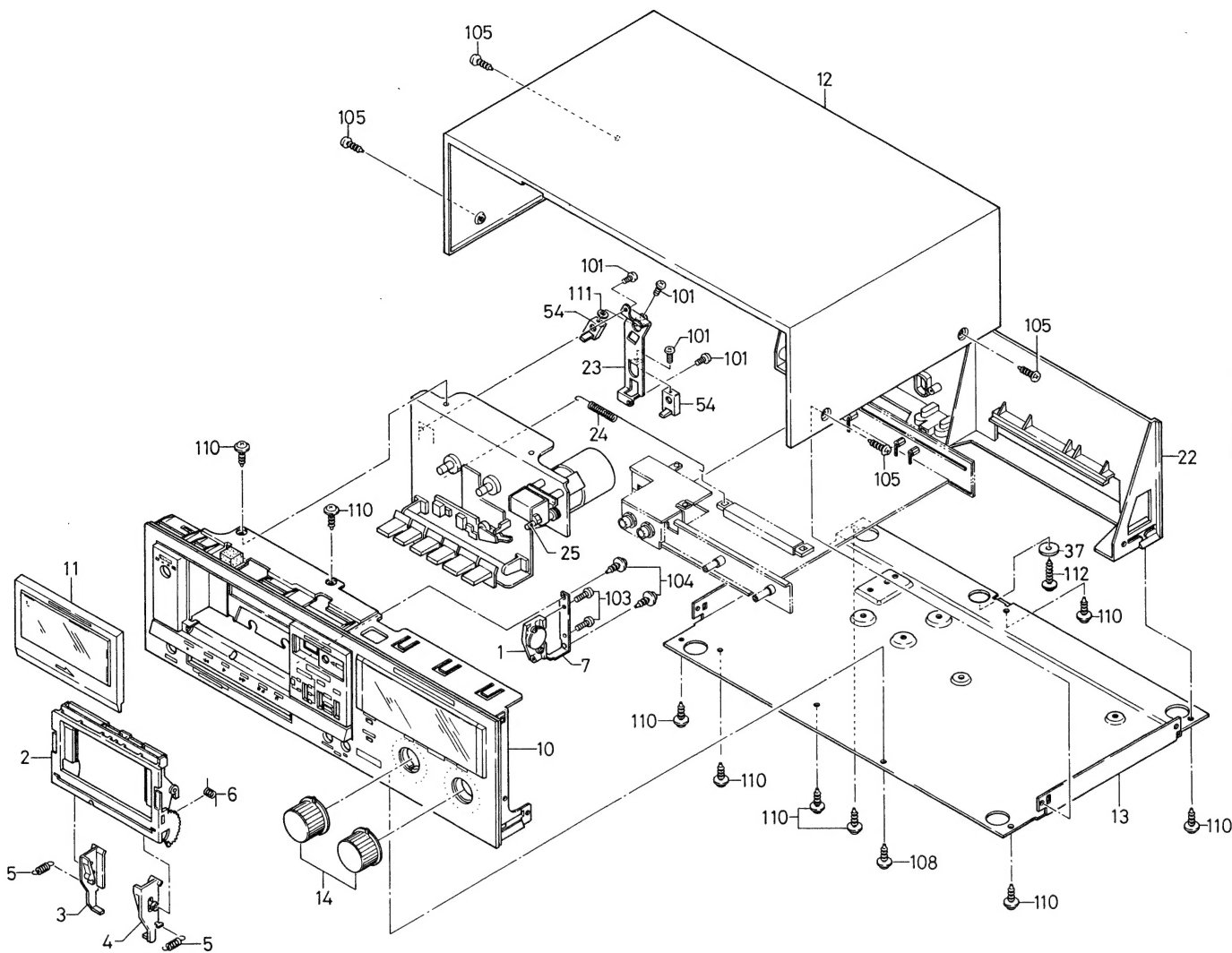
Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
PACKING				ELECTRICAL PARTS			
	141-6-133T-09203	Individual Carton	1	51	4-238T-12873	Power Switch	1
	141-6-144T-60800	Foam Plastic Case	2	52	4-243T-77172	Power Cord	1
	141-6-231T-20300	Inner Poly Cover, Inst B	1		4-243T-83200	Power Cord	1
	141-6-231T-10300	Inner Poly Cover, AC Cord	1	53	4-300T-11400	Power Trans	2
	141-6-231T-10200	Inner Poly Cover, Acce Cord	1	54	4-231T-51300	Switch, Play/Stop/Muting	1
	141-6-231T-50700	Inner Poly Cover	1	55	4-235T-44871	Socket, Headphone	2
	141-6-479T-31400	Label	1	56	4-511T-09676	Meter	1
	141-6-479T-07700	Label	1	57	4-238T-13000	Switch, Voltage Select	1
ACCESSORY				MAIN AMP PCB ASS'Y			
	141-6-410T-37103	Instruction Manual	1	59	141-4-233T-26172	P.C. Board Ass'y, Main Amp	1
	4-241T-12900	Cassette Tape C-60	1	S1	4-238T-09200	R/P Switch	2
	4-243T-13303	Lead Cord Ass'y	1	L501,551	4-255T-01672	MX Coil	1
CABINET				L703,803	4-258T-25300	OSC Coil	2
1	141-0-581T-07100	Gear Ass'y	1	VR701	4-255T-01900	MX Coil	1
2	141-2-224T-10600	Bracket, Lid	1	SVR704, 804	4-236T-10200	Plug, R/P Head	1
3	141-2-210T-06800	Bracket, Cassette Holder	1	SVR701, 801	4-222T-81290	Variable Resistor, Mic/Line	2
4	141-2-210T-06900	Bracket, Cassette Holder	1	SVR703, 803	4-222T-70873	Variable Resistor, 2K-R	2
5	141-2-855T-29700	Spring Coil, Cassette Holder	2	SVR702, 802	4-222T-70875	Variable Resistor, 10K-R	2
6	141-2-855T-37900	Spring Coil, Lid	1		4-222T-70878	Variable Resistor, 100K-R	2
7	141-2-310T-22600	Bracket, Gear	1		4-222T-39575	Variable Resistor	2
8	141-2-210T-08900	Bracket, PCB	2	S9	4-235T-55472	Socket	1
9	141-2-464T-29900	Fixer	3	IC701, 801	4-231T-42100	Switch, Mic/Line Select	1
10	141-0-122T-32004	Front Panel Ass'y	1	IC501, 551		IC LA3160 T, Pre Amp	1
11	141-0-124T-26500	Cassette Comp Lid Ass'y	1	Q702,802, 705,805		IC LM1011N, Dolby Amp	2
12	141-2-111T-41701	Cabinet	1	Q703,803		Transistor 2SC536 AUD	4
13	141-2-125T-18901	Bottom Lid	1	Q902,903		Transistor 2SD545	2
14	141-0-156T-24400	Knob Ass'y, Volume	2	D908,910		Transistor 2SA826	2
CHASSIS				D701,801, 702,802		Diode 1S2473	2
21	141-2-361T-17200	Bracket, Volume	1	D907		Diode 1N60 FM	4
22	141-0-126T-32109	Back Lid Ass'y	1	D911		Zener Diode WZ182	1
23	141-2-365T-10100	Bracket, Muting Switch	1	Q601,602, 701,704, 801,804		Diode YZ047	1
24	141-2-855T-52100	Spring Coil, Rec	1	Q901		Transistor 2SC945	6
25	141-2-156T-06101	Knob, Counter	1			Transistor 2SD400	1
26	141-2-365T-50300	Bracket, Power Switch	1	RESISTORS			
27	141-2-162T-17300	Lever Knob	3	R903	Solid 1.5K ohm	±10% 1/2W	1
28	141-2-156T-17501	Knob, Power Switch	1	R922	Solid 47 ohm	±10% 1/4W	1
29	141-2-373T-06900	Bracket, Meter	1	R906	Solid 8.2 ohm	±10% 1/2W	1
30	141-2-153T-54700	Escutcheon, Meter	1	R721,821	Solid 680 ohm	±10% 1/2W	2
31	141-2-361T-17100	Bracket, Switch	1	R910	Carbon 820K ohm	±5% 1/4W	1
32	141-2-210T-18800	Bracket, PCB	1	R714,814	Carbon 680K ohm	±5% 1/4W	2
35	141-2-246T-66401	Sheet	1	R909	Carbon 390K ohm	±5% 1/4W	1
36	141-2-464T-20671	Fixer	15	R912,806	Carbon 120K ohm	±5% 1/4W	2
37	123-2-453T-10500	Plastic Washer, AC Cord	1	R720,820	Carbon 100K ohm	±5% 1/4W	2
HARDWARE				R507	Carbon 47K ohm	±5% 1/4W	1
101		Pan Head Screw 2.6x4mm	4	R502,701, 801	Carbon 33K ohm	±5% 1/4W	3
102		Pan Head Screw 3x6mm	7	R907	Carbon 27K ohm	±5% 1/4W	1
103		Tapping Screw 2.6x8mm	2	R604	Carbon 12K ohm	±5% 1/4W	1
104		Tapping Screw 3x8mm	1	R916,917	Carbon 4.7K ohm	±5% 1/4W	2
105		Binding Head Tapping Screw 4x10mm	4	R555	Carbon 3.3K ohm	±5% 1/4W	1
106		Nut 7mm	1	R905,812, 718	Carbon 2.2K ohm	±5% 1/4W	3
107		Internal Tooth Lock Washer 7mm	1	R716,816	Carbon 2.2K ohm	±5% 1/4W	2
108		Tapping Screw with Washer 3x6mm	4	R715,815	Carbon 1.5K ohm	±5% 1/4W	2
109		Tapping Screw with Washer 3x8mm	9	R717,817	Carbon 1K ohm	±5% 1/4W	2
110		Tapping Screw with Washer 3x10mm	5	R822	Carbon 150 ohm	±5% 1/4W	1
111	141-2-453T-01700	Fiber Washer 3x10x1mm	1	R908	Carbon 100 ohm	±5% 1/4W	1
112		Tapping Screw with Washer 3x12mm	1	R738	Carbon 56K ohm	±5% 1/4W	1
				R706	Carbon 120K ohm	±5% 1/4W	1
				R914,552	Carbon 33K ohm	±5% 1/4W	2
				R729,829	Carbon 18K ohm	±5% 1/4W	2
				R732,832	Carbon 15K ohm	±5% 1/4W	2
				R702,802, 723,823	Carbon 10K ohm	±5% 1/4W	4

PARTS LIST

Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
MAIN AMP PCB ASS'Y				MAIN AMP PCB ASS'Y			
R708,808		Carbon 5.6K ohm ±5% 1/4W	2	C601		Electrolytic 47μF 16V	1
R728,828		Carbon 2.2K ohm ±5% 1/4W	2	C602		Electrolytic 10μF 16V	1
R505		Carbon 3.3K ohm ±5% 1/4W	1	C920		BC CON 0.1μF 25V ±20%	1
R712,818, 736,836		Carbon 2.2K ohm ±5% 1/4W	4	LED PCB ASS'Y			
R918		Carbon 150K ohm ±5% 1/4W	1	60	141-4-233T-26301	P.C. Board Ass'y, LED	1
R731,831		Carbon 1.5K ohm ±5% 1/4W	2	D906		LED SLB26YY Yellow	1
R921		Carbon 820 ohm ±5% 1/4W	1	D905		LED SLB26UR 1 Red	1
R722		Carbon 150 ohm ±5% 1/4W	1	R902		Solid Res. 3.3K ohm ±10% 1/2W	1
R606		Carbon 10 ohm ±5% 1/4W	1	SWITCH PCB ASS'Y			
R707,807		Carbon 3.3K ohm ±5% 1/4W	2	61	141-4-233T-26203	P.C. Board Ass'y Switch	1
R605		Carbon 5.6K ohm ±5% 1/4W	1	S3	4-238T-09300	Switch, Dolby/Bias	1
R805		Carbon 68 ohm ±5% 1/4W	1	S2	4-238T-09400	Switch, EQ	1
R810		Carbon 180K ohm ±5% 1/4W	1	S4	4-238T-10300	Switch, Dolby	1
R915		Carbon 33K ohm ±5% 1/4W	1	L702,802	4-253T-01009	Hi-Frequency Choke Coil 2.2mH	2
R911		Carbon 15K ohm ±5% 1/4W	1	L701,801	4-253T-01006	Hi-Frequency Choke Coil 3.3mH	2
R709,809		Carbon 3.9K ohm ±5% 1/4W	2	RESISTORS			
R920		Carbon 100 ohm ±5% 1/4W	1	R554		Carbon 180 ohm ±10% 1/4W	1
R705		Carbon 68 ohm ±5% 1/4W	1	R726		Carbon 3.3K ohm ±10% 1/4W	1
R904		Carbon 82K ohm ±5% 1/4W	1	R725		Carbon 3.9K ohm ±10% 1/4W	1
R557		Carbon 47K ohm ±5% 1/4W	1	R553		Carbon 1M ohm ±10% 1/4W	1
R501,551		Carbon 1M ohm ±5% 1/4W	2	R504		Carbon 180 ohm ±10% 1/4W	1
R508,558		Carbon 560K ohm ±5% 1/4W	2	R826		Carbon 3.3K ohm ±10% 1/4W	1
R509,559, 510,560		Carbon 270K ohm ±5% 1/4W	4	R727,827		Carbon 15K ohm ±10% 1/4W	2
R710		Carbon 180K ohm ±5% 1/4W	1	R825		Carbon 3.9K ohm ±10% 1/4W	1
R730,830		Carbon 150K ohm ±5% 1/4W	2	R734,834		Carbon 2.2K ohm ±10% 1/4W	2
R913		Carbon 47K ohm ±5% 1/4W	1	R503		Carbon 1M ohm ±10% 1/4W	1
R838		Carbon 56K ohm ±5% 1/4W	1	R601		Solid 270 ohm ±10% 1/2W	1
CAPACITORS				R602		Solid 390 ohm ±10% 1/2W	1
C728,828		Ceramic 220pF 50V ±10%	2	R603		Carbon 47 ohm ±10% 1/2W	1
C705,805		Ceramic 330pF 50V ±10%	2	R741,742, 743,744, 745,841, 842,843, 844,845		Carbon 1M ohm ±10% 1/4W	10
C727,827		Ceramic 470pF 50V ±10%	2	CAPACITORS			
C702,802		Ceramic 560pF 50V ±10%	2	C718,818		Mylar 0.0022μF 50V ±10%	2
C706,806		Ceramic 0.001μF 50V ±10%	2	C724,824		Mylar 0.0033μF 50V ±5%	2
C708,808		Mylar 0.022μF 50V ±5%	2	C719,819		Mylar 0.022μF 50V ±5%	2
C710,810		Mylar 0.018μF 50V ±5%	2	C726,826		Mylar 0.022μF 50V ±5%	2
C701,801		Ceramic 0.001μF 50V ±10%	2	C720,820		Mylar 0.033μF 50V ±5%	2
C723,823		Electrolytic 1μF 25V	2	C722,822		Mylar 0.039μF 50V ±5%	2
C712,812, 713,813, 716,816		Electrolytic 2.2μF 25V	6	C721,821		Mylar 0.015μF 50V ±5%	2
C711,811		Electrolytic 3.3μF 25V	2	MIC PCB ASS'Y			
C709,809		Electrolytic 4.7μF 25V	2	62	141-4-233T-27771	P.C. Board Ass'y, Mic	1
C729,829		Electrolytic 4.7μF 16V	2	R703,803	4-235T-44971 4-235T-42871	Socket, Mic R Socket, Mic L Carbon Res. 4.7K ohm ±10% 1/4W	1 1 2
C703,803, 730,830		Electrolytic 10μF 16V	4	VOLUME PCB ASS'Y			
C714,814		Electrolytic 22μF 16V	2	63	141-4-233T-34400	P.C. Board Ass'y, Volume	1
C707,807		Electrolytic 100μF 16V	2	VR801	4-222T-81290	Variable Resistor	1
C715,815		AL Electrolytic 1μF 25V ±40-20%	2				
C905		Electrolytic 10μF 25V	1				
C906		Electrolytic 47μF 16V	1				
C909		Electrolytic 100μF 25V	1				
C903,904		Electrolytic 220μF 25V	2				
C910		Electrolytic 47μF 16V	1				
C911		Electrolytic 470μF 25V	1				
C502,552		Ceramic 220pF 50V ±10%	2				
C507,557, 509,559		Ceramic 0.001μF 50V ±10%	4				
C607		Mylar 0.0022μF 50V ±5%	1				
C606		Mylar 0.0068μF 50V ±5%	1				
C603		Mylar 0.015μF 50V ±5%	1				
C512,562, 604,605		Mylar 0.047μF 50V ±5%	4				
C511,561		Mylar 0.0056μF 50V ±5%	2				
C514,564		Mylar 0.027μF 50V ±5%	2				
C516,566		Mylar 0.047μF 50V ±5%	2				
C503,553, 501,551, 907		Electrolytic 2.2μF 25V	5				
C508,558, 510,560		Electrolytic 4.7μF 25V	4				
C513,563, 515,565, 517,567		Electrolytic 10μF 16V	6				
C520,570		Electrolytic 220μF 16V	2				
C518,568		AL Electrolytic 0.1μF 16V ±40-20%	2				
C519,569		AL Electrolytic 0.33μF 16V ±40-20%	2				

PARTS LIST

Key No.	Part No.	Description	Qty
POWER SUPPLY PCB ASS'Y			
64	141-4-230T-93904	P.C. Board Ass'y, Power Supply	1
D901 902, 903,904, R901		Diode 1N4003 or SR1K2	4
C902		Carbon Res. 2.7K ohm	1
C901		Electrolytic Cap. 1000uF 35V	1
		Electrolytic Cap. 1000uF 25V	1
CR PACK PCB ASS'Y			
65	141-4-230T-90910	P.C. Board Ass'y,	1
	4-223T-04772	Capacitor	1
	4-236T-13473	Plug, 4P	1



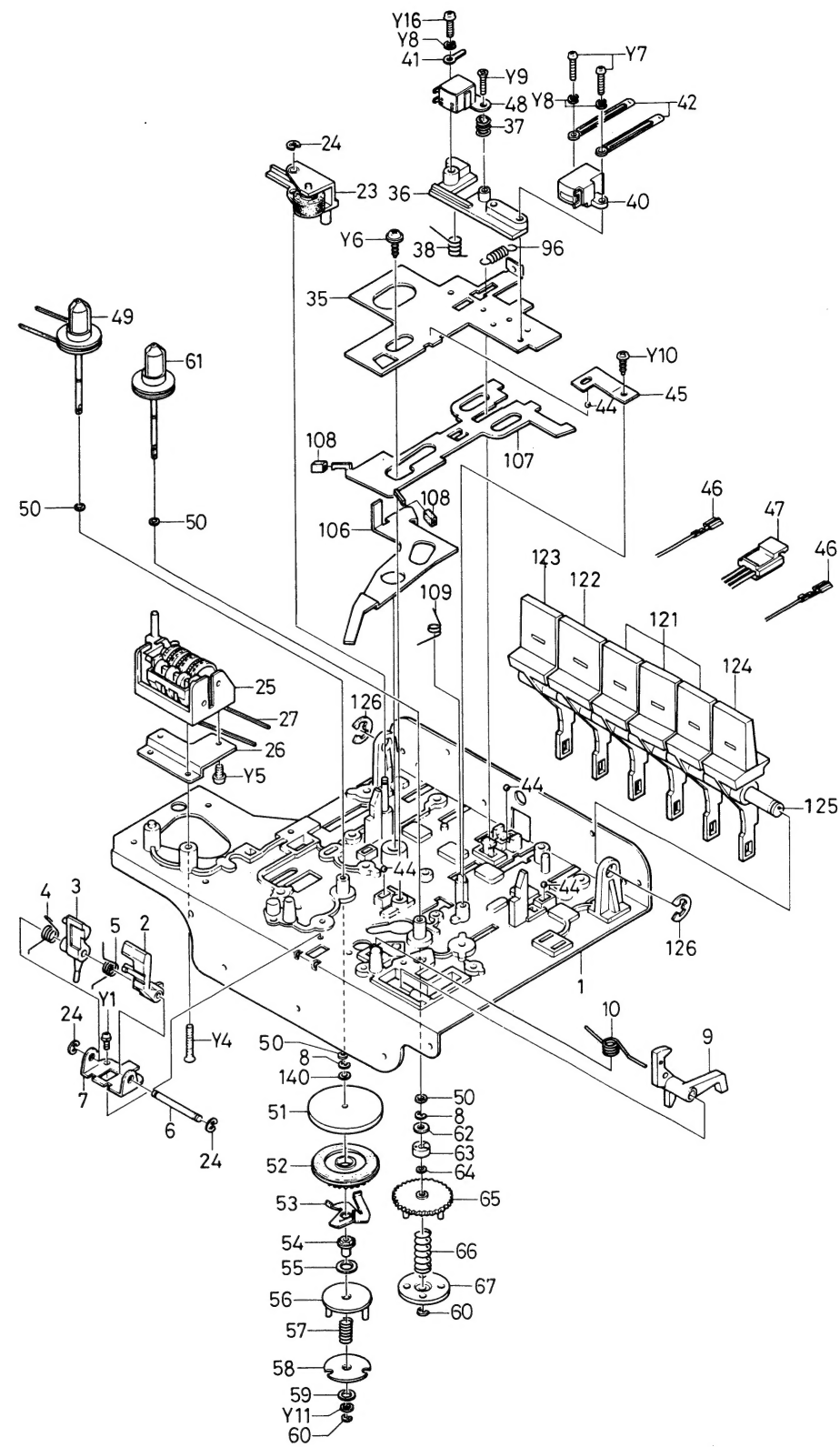
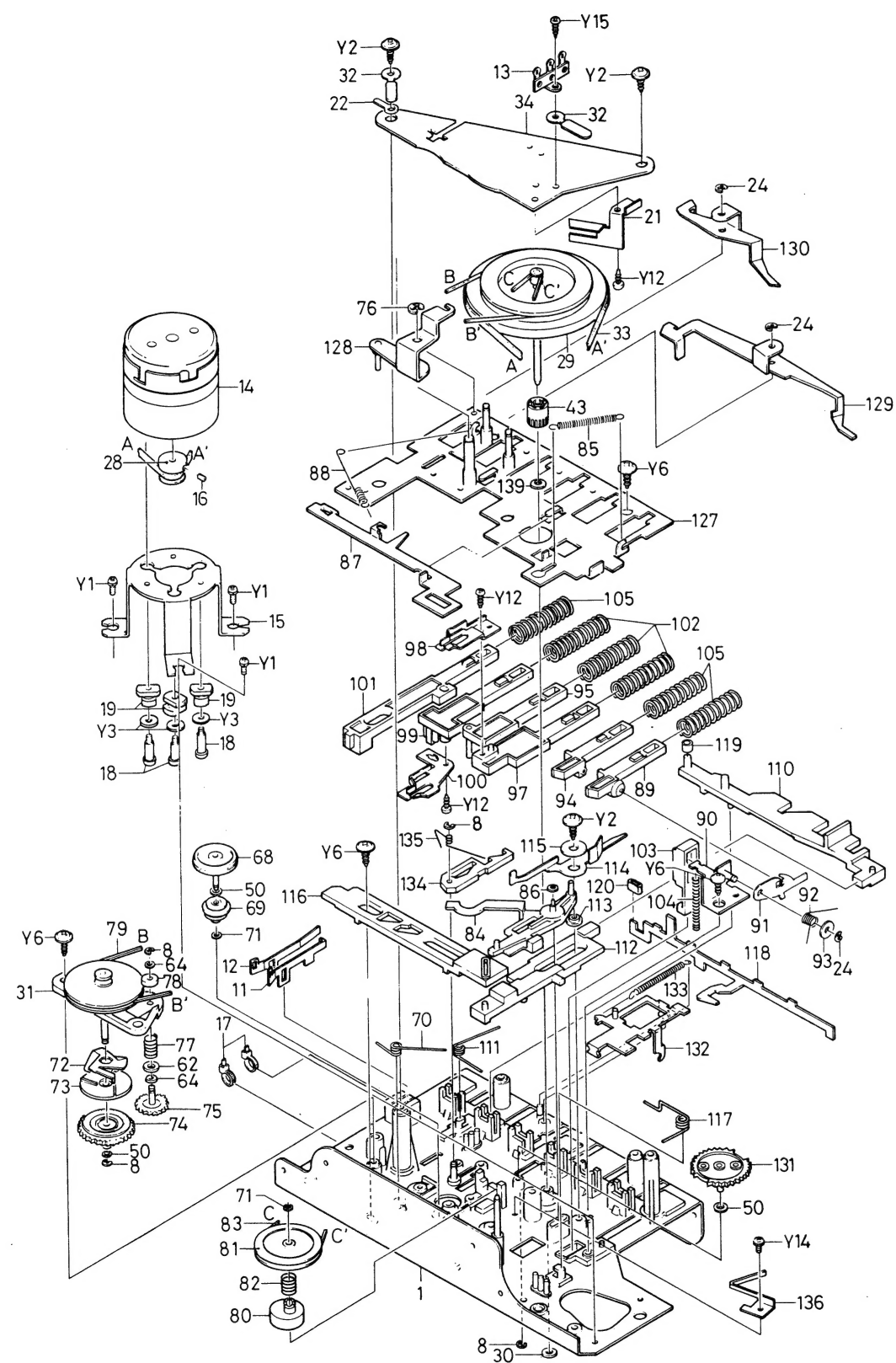
PARTS LIST

Key No.	Part No.	Description	Q'ty
MECHANISM			
1	141-0-311T-28021	Chassis Ass'y	1
2	141-2-742T-25800	Lever, Cassette Lid Lock	1
3	141-2-742T-18300	Lever	1
4	141-2-852T-47300	Spring Wire	1
5	141-2-852T-48400	Spring Wire	1
6	141-2-753T-41400	Shaft, Lever	1
7	141-2-747T-16400	Bracket, Lever	1
8	141-2-457T-23800	Special Washer	4
9	141-2-742T-14500	Lever	1
10	141-2-852T-47200	Spring Wire	1
11	141-2-853T-48601	Spring Plate, Main Switch	1
12	141-2-853T-48500	Spring Plate, Main Switch	1
13	4-237T-05800	Terminal Board	1
14	4-527T-10374	for Motor	1
	4-527T-10373		
15	141-2-378T-09600	Bracket, Motor	1
16		Screw, Headless 2x4mm	1
17	141-2-464T-20671	Fixer	2
18	141-2-421T-12501	Special Screw, Motor	3
19	141-2-445T-11801	Rubber Cushion	3
21	141-2-351T-46300	Bracket Mounting	1
22	123-2-472R-00400	Lug	2
23	141-0-545T-05000	Lever, Pinch Roller Ass'y	1
24	141-2-457T-23000	Special Washer	6
25	141-2-811T-04700	Counter	1
26	141-2-812T-07300	Bracket, Counter	1
27	141-2-564T-19100	Square Belt	1
28	141-2-661T-73300	Pulley, Motor	1
29	141-0-521T-09001	Flywheel Ass'y	1
30	141-2-457T-04300	Special Washer	1
31	141-0-661T-26300	Pulley Ass'y F.F. Rew	1
32	123-2-472R-00601	Lug	2
33	141-2-561T-04501	Flat Belt, Main	1
34	141-0-524T-07901	Bracket, Flywheel Ass'y	1
35	141-2-731T-58600	Slide, Head	1
36	141-2-464T-32000	Fixer	1
37	141-2-851T-82700	Spring Coil	1
38	141-2-852T-47400	Spring Wire	1
40	4-242T-23372	Head, E	1
41	123-2-472R-00200	Lug	1
42	141-2-472T-05900	Lug	2
44	141-2-345T-00400	Steel Ball	4
45	141-2-853T-54900	Spring Plate	1
46	4-235T-34600	Socket, E Head	2
47	4-235T-60200	Socket, R/P Head	1
48	4-242T-24200	Head, R/P	1
49	141-0-531T-11800	Reel Plate Ass'y, Tack Up	1
50	141-2-453T-30101	Washer 2.1x4x0.25	6
51	141-2-547T-02100	Roller, Tack Up	1
52	141-0-581T-10600	Gear Ass'y	1
53	141-2-853T-54500	Spring Plate	1
54	141-2-457T-13300	Special Washer	1
55	141-2-453T-30500	Washer 4.1x6.5x0.13	2
56	141-2-671T-05500	Cum	1
57	141-2-855T-23500	Spring Coil	1
58	141-2-457T-13000	Special Washer	1
59	141-2-453T-30501	Washer 4.1x6.5x0.25	1
60	141-2-457T-23700	Special Washer	2
61	141-0-531T-11801	Reel Plate Ass'y, Supply	1
62	141-2-457T-14000	Special Washer	2
63	141-2-457T-14100	Special Washer	1
64	141-2-457T-11000	Special Washer	3
65	141-2-581T-10700	Gear, Rew	1
66	141-2-855T-23200	Spring Coil	1
67	141-2-661T-26500	Pulley, Rew	1
68	141-0-551T-01720	Idler Ass'y	1
69	141-2-661T-26600	Pulley	1
70	141-2-852T-47800	Spring Wire	1
71	141-2-453T-31600	Washer 1.6x4x0.25mm	2
72	141-2-853T-54400	Spring Plate, F.F. Rew	1
73	141-2-457T-13100	Special Washer, F.F. Rew	1
74	141-0-581T-10400	Gear Ass'y, F.F. Rew	1
75	141-0-581T-10500	Gear Ass'y, F.F.	1
76	141-2-457T-23100	Special Washer	1
77	141-2-855T-23400	Spring Coil	1
78	141-2-457T-13600	Special Washer	1
79	141-2-564T-18301	Square Belt	1

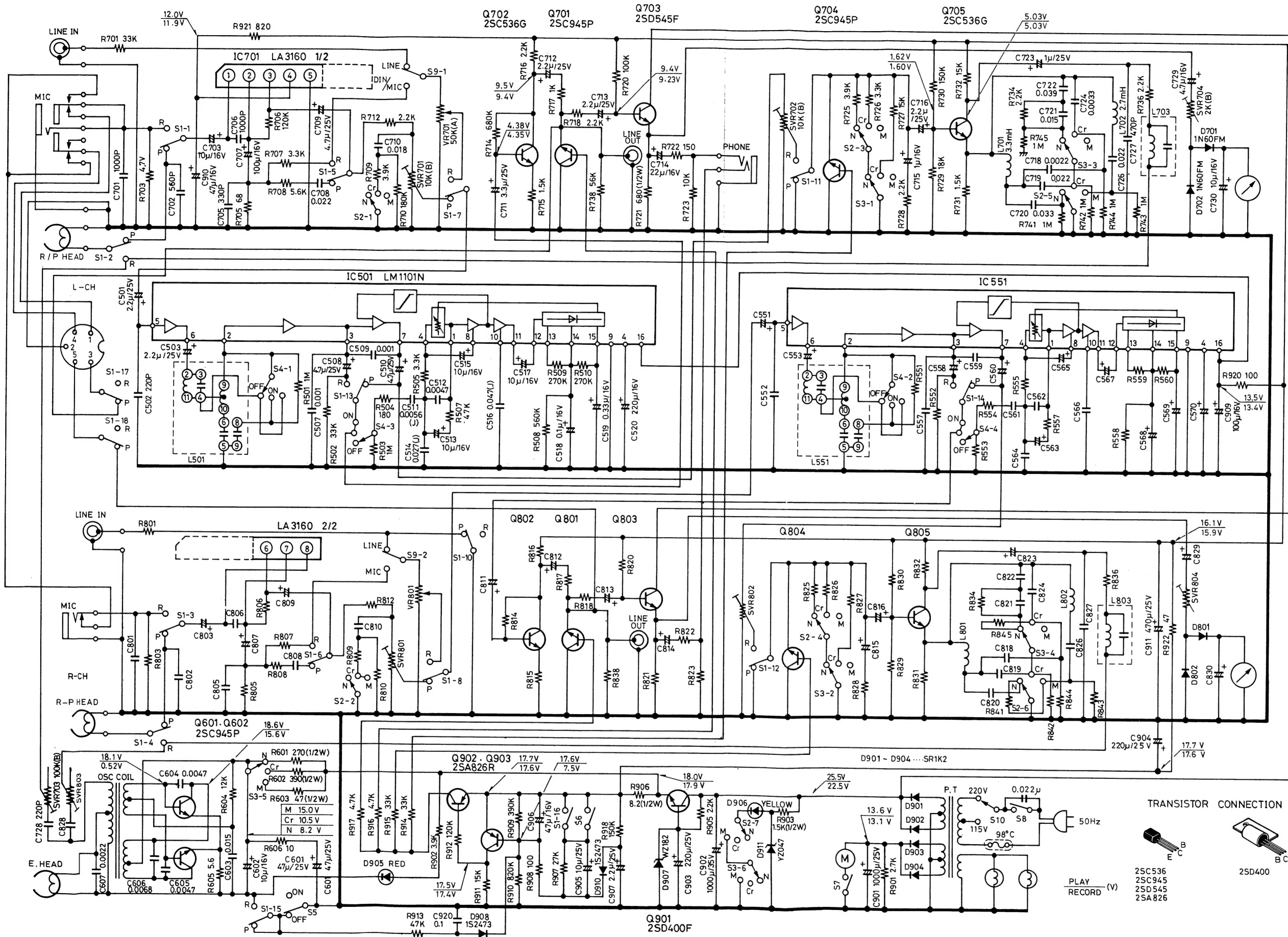
Key No.	Part No.	Description	Q'ty
MECHANISM			
80	141-2-671T-05600	Cum, Autostop	1
81	141-2-661T-26400	Pulley, Autostop	1
82	141-2-855T-30300	Spring Coil	1
83	141-2-564T-18401	Square Belt, Autostop	1
84	141-0-742T-14100	Lever Ass'y	1
85	141-2-855T-23101	Spring Coil	1
86	141-2-457T-14300	Special Washer	1
87	141-2-742T-13900	Lever	1
88	141-2-855T-26300	Spring Coil	1
89	141-0-731T-59100	Slide Ass'y	1
90	141-0-747T-17200	Bracket Lever Ass'y	1
91	141-2-742T-13800	Lever	1
92	141-2-852T-47700	Spring Wire	1
93	141-2-453T-00800	Washer 3x8x0.5mm	1
94	141-2-731T-59100	Slide, Stop Button	1
95	141-0-731T-58900	Slide Ass'y, Play Button	1
96	141-2-855T-11800	Spring Coil	1
97	141-2-731T-59000	Slide, F.F.	1
98	141-2-853T-54800	Spring Plate F.F.	1
99	141-2-731T-58800	Slide, Rew Button	1
100	141-2-853T-54700	Spring Plate, Rew	1
101	141-2-731T-58700	Slide, Rec Button	1
102	141-2-855T-23000	Spring Coil	3
103	141-2-731T-64300	Slide, Eject	1
104	141-2-855T-30200	Spring Coil	1
105	141-2-855T-29500	Spring Coil	3
106	141-2-742T-14000	Lever	1
107	141-2-731T-65600	Slide	1
108	141-2-712T-02700	Brake Shoe	2
109	141-2-853T-49000	Spring Wire	1
110	141-2-742T-14200	Lever	1
111	141-2-852T-47500	Spring Wire	1
112	141-2-731T-59200	Slide	1
113	141-2-683T-34200	Ring	1
114	141-2-853T-54601	Spring Plate	1
115	141-2-457T-33400	Special Washer	1
116	141-2-731T-59301	Slide	1
117	141-2-852T-47600	Spring Wire	1
118	141-2-731T-61100	Slide, Lock	1
119	141-2-490T-08301	Tube	1
120	141-2-490T-08000	Tube	1
121	141-2-611T-12000	Lever, Push Button, Play, Rew. F.F.	3
122	141-2-611T-11900	Lever, Push Button, Stop	1
123	141-2-611T-12100	Lever, Push Button, Pous	1
124	141-2-611T-12001	Lever, Push Button, Rec	1
125	141-2-753T-34300	Shaft	1
126	141-2-457T-23600	Special Washer	2
127	141-0-737T-05900	Bracket, Slide Ass'y	1
128	141-0-742T-25700	Lever Ass'y, Rec	1
129	141-2-742T-19800	Lever, Stop	1
130	141-2-742T-19901	Lever, Plug	1
131	141-0-581T-11900	Gear Ass'y	1
132	141-0-731T-61000	Slide Ass'y	1
133	141-2-855T-25300	Spring Coil	1
134	141-2-742T-19600	Lever	1
135	141-2-852T-48900	Spring Wire	1
136	141-2-853T-56800	Spring Plate	1
139	141-2-453T-30201	Washer 2.5x5x0.25 Nylon	1

PARTS LIST

Key No.	Part No.	Description	Q'ty
MECHANISM HARDWARE			
Y1		Pan Head Screw W/Spring Washer 2.6x4mm	5
Y2		Pan Head Tapping Screw W/Washer 3x8mm	3
Y3		Washer 3x8x0.5mm	4
Y4		Flat Head Screw 3x16mm	1
Y5		Pan Head Screw 3x6	2
Y6		Pan Head Tapping Screw W/Washer 3x6mm	4
Y7		Pan Head Screw 2x11mm	2
Y8		Spring Washer 2mm	3
Y9		Flat Head Screw 2x11mm	1
Y10		Tapping Screw 3x6mm	1
Y11		Washer 2x6x0.5mm	1
Y12		Tapping Screw 2.3x6mm	2
Y14		Pan Head Screw 2.6x4mm	1
Y15		Pan Head Screw W/Spring Washer 3x4mm	1
Y16		Pan Head Screw 2x10mm	1

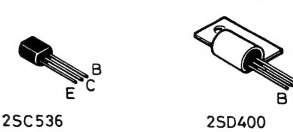


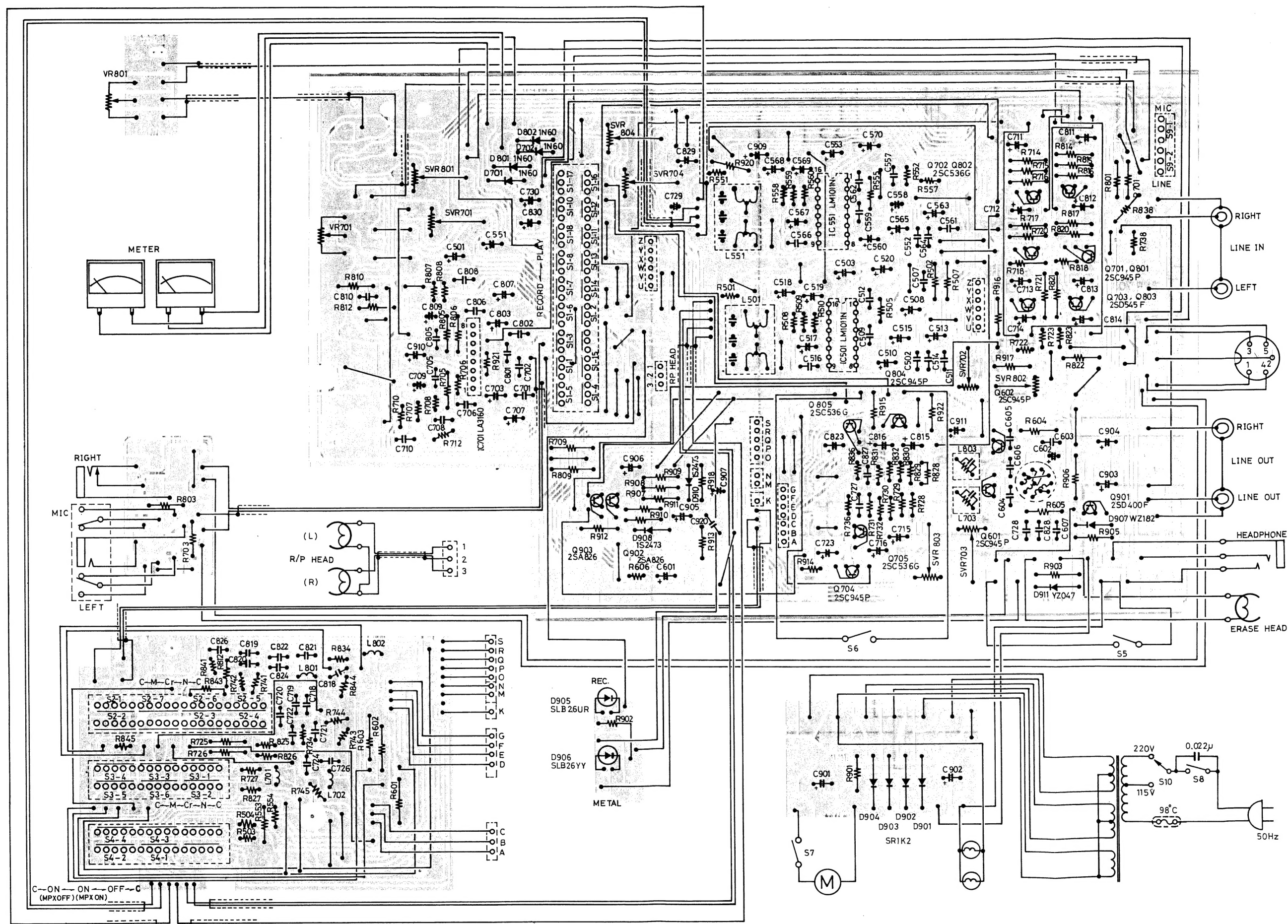
SCHEMATIC DIAGRAM



- S1-1 ~ S1-18 ---- RECORD / PLAY SW
 S2-1 ~ S2-7 ---- EQUALIZER SW
 S3-1 ~ S3-6 ---- BIAS SW
 S4-1 ~ S4-4 ---- DOLBY SW
 S5 ---- STOP SW
 S6 ---- PLAY SW
 S7 ---- MOTOR SW
 S8 ---- POWER SW
 S9-1 ~ S9-2 ---- MIC LINE SW
 S10 ---- VOLTAGE SELECT SW

TRANSISTOR CONNECTION





PARTS LOCATION

